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(FILE 'HOME' ENTERED AT 16:28:08 ON 17 OCT 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:28:15 ON 17 OCT 2002

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        136465   FILE USPATFULL
          1312   FILE USPAT2
           688   FILE VETB
          1638   FILE VETU
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         60496   FILE WPINDEX
L1             QUE PLASMID OR VECTOR
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     FILE 'BIOSIS, CAPLUS, SCISEARCH, PASCAL, DGENE, MEDLINE, EMBASE' ENTERED
     AT 16:30:06 ON 17 OCT 2002
L2          37 S L1 AND KETOGULONIGENIUM
L3          26 S L2 AND REPLICON
L4          26 DUP REM L3 (0 DUPLICATES REMOVED)
L5           0 S L2 AND PY<2000
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=> d l4 ibib ab 16-26

L4 ANSWER 16 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18312 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 17 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18311 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of

certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host f[redacted] amplification of **vector** DNA. [redacted] AAS18310-AAS1832[redacted] represent PCR primers used to g[redacted]erate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 18 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18310 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 19 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18309 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. The present DNA

sequence represents the region of **Ketogulonigenium** endogenous **plasmid** pADM291 th[redacted] supports **plasmid vector** replication.

L4 ANSWER 20 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18308 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. The present DNA sequence represents the shuttle **vector plasmid** pADM291-4.

L4 ANSWER 21 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18307 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. The present DNA sequence represents the **Ketogulonigenium** endogenous **plasmid** pADM291.

L4 ANSWER 22 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18306 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising **Ketogu[redacted]igenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. The present DNA sequence represents the **replicon** of **Ketogulonigenium** endogenous **plasmid** pADM291.

L4 ANSWER 23 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS17226 DNA DGENE
TITLE: New bacterium of **Ketogulonigenium** genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous **Ketogulonigenium plasmid** -

INVENTOR: D'Elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.
PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2001-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]

AB The present invention relates to a new bacterium of genus **Ketogulonigenium**. **Ketogulonigenium** may further comprise a transgene, comprising a DNA sequence from an endogenous **Ketogulonigenium plasmid**. Methods for transforming **Ketogulonigenium** are also described. The invention is useful for producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The present sequence represents the nucleotide sequence of **replicon** #2 on the **Ketogulonigenium** endogenous **plasmid** pADMX6L1. Note: The present sequence for SEQ ID No 5 given in the sequence listing is different from that given for SEQ ID No 5 in Fig 5 (AAS17123).

L4 ANSWER 24 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS17225 DNA DGENE
TITLE: New bacterium of **Ketogulonigenium** genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous **Ketogulonigenium plasmid** -

INVENTOR: D'elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.

PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2[redacted]-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]
AB The present invention relates to a new bacterium of genus **Ketogulonigenium**. **Ketogulonigenium** may further comprise a transgene, comprising a DNA sequence from an endogenous **Ketogulonigenium plasmid**. Methods for transforming **Ketogulonigenium** are also described. The invention is useful for producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The present sequence represents the nucleotide sequence of the **replicon** on the **Ketogulonigenium** endogenous **plasmid** pADMX6L3.

L4 ANSWER 25 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS17124 DNA DGENE
TITLE: New bacterium of **Ketogulonigenium** genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous **Ketogulonigenium plasmid** -
INVENTOR: D'Elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.
PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2001-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]
AB The present invention relates to a new bacterium of genus **Ketogulonigenium**. **Ketogulonigenium** may further comprise a transgene, comprising a DNA sequence from an endogenous **Ketogulonigenium plasmid**. Methods for transforming **Ketogulonigenium** are also described. The invention is useful for producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The present sequence represents the nucleotide sequence of the **replicon** on the **Ketogulonigenium** endogenous **plasmid** pADMX6L2.

L4 ANSWER 26 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS17123 DNA DGENE
TITLE: New bacterium of **Ketogulonigenium** genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous **Ketogulonigenium plasmid** -
INVENTOR: D'Elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.
PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2001-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]
AB The present invention relates to a new bacterium of genus **Ketogulonigenium**. **Ketogulonigenium** may further comprise a transgene, comprising a DNA sequence from an endogenous **Ketogulonigenium plasmid**. Methods for transforming **Ketogulonigenium** are also described. The invention is useful for producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The present sequence represents the nucleotide sequence of **replicon** #1 on the **Ketogulonigenium** endogenous **plasmid**

pADMX6L1. Note: The present sequence for SEQ ID No 5 given in Fig 5 is different from t[redacted] given for SEQ ID No 5 in the [redacted]uence listing (AAS17226).

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            2147   FILE PHIN
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            1638   FILE VETU
           60496   FILE WPIDS
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L1              QUE PLASMID OR VECTOR
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     FILE 'BIOSIS, CAPLUS, SCISEARCH, PASCAL, DGENE, MEDLINE, EMBASE' ENTERED
     AT 16:30:06 ON 17 OCT 2002
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L3            26 S L2 AND REPLICON
L4            26 DUP REM L3 (0 DUPLICATES REMOVED)

=> s l2 and py<2000

   2 FILES SEARCHED...
   4 FILES SEARCHED...
L5            0 L2 AND PY<2000

=> d l4 ibib ab 1-15


L4   ANSWER 1 OF 26  CAPLUS  COPYRIGHT 2002 ACS
ACCESSION NUMBER:         2001:763210  CAPLUS
DOCUMENT NUMBER:          135:314500
TITLE:                    Isolation of Ketogulonigenium endogenous
                        plasmids and their encoded replication
                          proteins and application
INVENTOR(S):              D'elia, John; Stoddard, Steven F.
PATENT ASSIGNEE(S):       Archer-Daniels-Midland Company, USA
SOURCE:                   PCT Int. Appl., 116 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

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             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 2002006665      A1   20020117       US 2001-826191   20010405
PRIORITY APPLN. INFO.:                   US 2000-194627P  P  20000405
AB   The present invention relates, in general, to a novel genus of bacteria
     known as Ketogulonigenium. Specifically, four plasmids
     are isolated from Ketogulonigenium including pADMX6L1, pADMX6L2,
     pADMX6L3, and pADMX6IA. Based on sequence similarity to known
     plasmid-encoded replication proteins, plasmids pADMX6L1,
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pADMX6L2, and pADMX6L3 are found to encode potential **plasmid** replication prote[redacted]. The present invention furth[redacted] relates to transformed **Ketogulonigenium**, and methods of transforming **Ketogulonigenium**. These **plasmids** from the genus **Ketogulonigenium** may be useful as a basis for cloning and expression **vectors** for ketogulogenic (2-keto-L-gulonic acid-synthesizing genera) bacteria.

L4 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:763209 CAPLUS
DOCUMENT NUMBER: 135:314499
TITLE: **Ketogulonigenium** endogenous **plasmid** pADM291, its derived shuttle **vectors** and their application
INVENTOR(S): D'elia, John
PATENT ASSIGNEE(S): Archer-Daniels-Midland Company, USA
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077347	A2	20011018	WO 2001-US11059	20010405
WO 2001077347	A3	20020328		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002039761	A1	20020404	US 2001-826206	20010405

PRIORITY APPLN. INFO.: US 2000-194625P P 20000405

AB The present invention relates, in general, to **vectors** comprising **Ketogulonigenium replicons**. More specifically, the present invention relates to **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid** pADM291 and its derived shuttle **vectors**. The **plasmid** is from the genus **Ketogulonigenium** and may be useful as a basis for cloning and expression **vectors** for ketogulogenic (2-keto-L-gulonic acid-synthesizing genera) bacteria. The present invention further relates to transformed **Ketogulonigenium**, and methods of transforming **Ketogulonigenium**.

L4 ANSWER 3 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18325 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors**

comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid** pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 4 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18324 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 5 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18323 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes

methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 6 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18322 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 7 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18321 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the

transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 8 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18320 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH) ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 9 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18319 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH) ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors**

which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 10 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18318 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 11 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18317 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of

certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 12 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18316 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH) ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 13 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18315 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH) ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA.

AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of
the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 14 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18314 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of
the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 15 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18313 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium replicon** found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and Escherichia coli, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

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1. Document ID: US 20020064871 A1

L1: Entry 1 of 6 File: PGPB May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020064871 A1

TITLE: Endogenous ketogulonigenium plasmid

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schmidt, Thomas M.	East Lansing	MI	US	
Stoddard, Steven F.	Decatur	IL	US	

US-CL-CURRENT: 435/320.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

2. Document ID: US 20020039761 A1

L1: Entry 2 of 6 File: PGPB Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020039761
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020039761 A1

TITLE: Ketogulonigenium shuttle vectors

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
D' Elia, John	Champaign	IL	US	

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 536/23.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

3. Document ID: US 20020006665 A1

L1: Entry 3 of 6 File: PGPB Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006665
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020006665 A1

TITLE: Ketogulonigenium endogenous plasmids

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
D'Elia, John	Champaign	IL	US	
Stoddard, Steven F.	Decatur	IL	US	

US-CL-CURRENT: 435/476; 435/252.3, 435/252.33, 435/320.1, 536/23.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

4. Document ID: US 20020039761 A1 WO 200177347 A2 AU 200153162 A

L1: Entry 4 of 6 File: DWPI Apr 4, 2002

DERWENT-ACC-NO: 2002-049150
DERWENT-WEEK: 200227
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TITLE: Novel nucleic acid vector comprising Ketogulonigenium replicon found on a specific deposited endogenous plasmid, useful for producing polypeptides and/or transcripts by culturing host cells transformed with vector

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

5. Document ID: AU 200151342 A WO 200177348 A2 US 2002006665 A1

L1: Entry 5 of 6 File: DWPI Oct 23, 2001

DERWENT-ACC-NO: 2002-041295
DERWENT-WEEK: 200213
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TITLE: New bacterium of Ketogulonigenium genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous Ketogulonigenium plasmid

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

6. Document ID: US 20020064871 A1 WO 200177159 A2 AU 200151324 A

L1: Entry 6 of 6 File: DWPI May 30, 2002

DERWENT-ACC-NO: 2001-657165
DERWENT-WEEK: 200240
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TITLE: New nucleic acid comprising the sequence of a Ketogulonigenium plasmid designated pADM291 is endogenous to microorganism strain NRRL B-30035

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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